

AGR 203: FIELD CROPS PRODUCTION

DATE:	21/01/2021		TIME: 8.30-10.30 AM

INSTRUCTIONS;

b)

c)

Answer *ALL* questions from Section A and any other *TWO* from Section B:

SECTION A: COMPULSORY: (30 MARKS)

a)	Define the following terms a	as used in crop	genetic improvement;
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i.	Plant Breeding	(2 marks)
ii.	Polyploidy	(2 marks)
iii.	Pureline	(2 marks)
iv.	Clone	(2 marks)
v.	Heterosis	(2 marks)
With s	specific examples, describe FOUR types of pre or post-harvest losses asso	ciated with
crop p	roduction	(8 marks)
Explain TWO types of maturity that determine crop harvesting		(4 marks)
α ···		(0, 1)

SECTION B: Answer any TWO questions (40 Marks)

QUESTION TWO (20 MARKS)

 i. Ecological conditions ii. Fertilization iii. Harvesting b) Explair five factors a farmer must consider when selecting maize variety for planting in highlar to factors a farmer must consider when selecting maize variety for planting in highlar to factors a farmer must consider when selecting maize variety for planting in highlar to factors a farmer must consider when selecting maize variety for planting in highlar to factors a farmer must consider when selecting maize variety for planting in highlar to factors a farmer must consider when selecting maize variety for planting in highlar to factors a farmer must consider when selecting maize variety for marks) a) Giving relevant examples, discuss FIVE key roles played by field crops production in the economic development in Kenya (10 marks) b) Describe the suitable climatic and edaphic conditions required for the optimal production of the following maior field crops: 		
iii. Harvestingb)Explain five factors a farmer must consider when selecting maize variety for planting in highlandsCUESTION THREE (20 MARKS)a)Giving relevant examples, discuss FIVE key roles played by field crops production in the economic development in Kenyab)Describe the suitable climatic and edaphic conditions required for the optimal production of		
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the following major field crops:		
the following major field crops;		
i. Sugarcane (2 marks)		
ii. coffee (2 marks)		
iii. tea (2 marks)		
iv. soybeans (2 marks)		

v. wheat (2 marks)

QUESTION FOUR (20 MARKS)

Describe the production of cotton under the following headings;

a)	Planting spacing	(5 marks)
b)	agronomic practices	(5 marks)
c)	harvesting	(5 marks)
d)	Processing	(5 marks)

QUESTION FIVE (20 MARKS)

b) Explain **FIVE** important agronomic practices that need to be carried out to realize high maize crop yields (10 marks)